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(71)Applicant : **MATSUSHITA ELECTRIC IND
CO LTD**

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(72)Inventor : **MIYA KAZUYUKI**

(54) CDMA RADIO MULTIPLEX SENDER AND CDMA RADIO MULTIPLEX TRANSMITTER

(57)Abstract:

PURPOSE: To improve the reliability of a pilot symbol and to improve synchronizing detection performance by providing a means for interpolating the pilot symbol only to one channel among channels to be multiplexed and transmitting it on the transmission side, and providing a means for estimating the state of a line from the received pilot symbol on the reception side.

CONSTITUTION: A pilot symbol (PL signal) 105 is inserted to the channel having a spread code '0' in each cycle by a switch 104. The multiplexed signal is modulated by a radio transmission part 107, and up-converted to a transmission frequency and transmitted from an antenna 108 later. On the reception side, the signal received by an antenna is down converted by a radio reception part, demodulated and inversely spread by an inverse spread circuit while using respective spread codes later. The PL signal is extracted from the signal inversely spread by a spread code '0' through the switch and based on that information, the transfer function of the line is estimated by a line state maintenance circuit.

